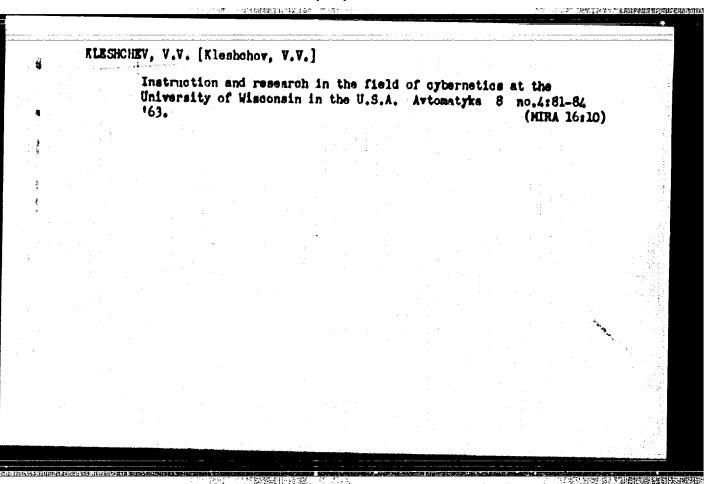
Study of economic systems using physical analogs. Avtomatyka 7 no.6120-29 162. (Economics, Mathematical)

KLESHCHEV. V.V. [Klieshchov, V.V.] (Kiyev); CHEKALIN, V.G. [Chekalin, V.H.]

Comparative estimation of the volumes of one-layer and multilayer recognition systems. Avtomatyka 8 no.4:45-49 '63. (MIRA 16:10)



KLESHCHEV. V.V. [Klienhchov, V.V.]

Practical utilization of program evaluation and review techniques. Avtomatyka 9 no.3261-66 °64 (MIRA 1727)

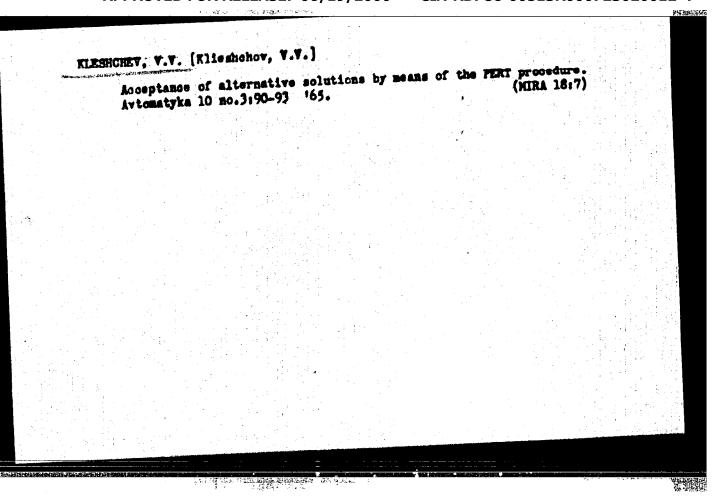
KLESHCHEV, V.V. [Klieshchov, V.V.]

Computer models of the economy. Avtomatyka 9 no.4173-74 164.

IVAKHNENKO, A.G.; KLESHCHEV, V.V.; OTKHMEZURI, G.L.; SHLEZHKER, M.I.

Pirst monograph on the theory of perceptrons (review of F. Rosenblatt's book "Principles of neurodynamics.") Avtom. upr. 1 vych. tekh. no.6:332-(MIRA 17:10)

349 '64.



KLESHCHEV, V.V. [Klieshchov, V.V.] Analysis of automatic control systems using signal flow graphs; graphical method. Automateka 10 no.4:87-92 165. (MIRA 18:10)

> CIA-RDP86-00513R000723020012-4" APPROVED FOR RELEASE: 06/19/2000

G.V

3-8-28/34

**海柳野** 

KLESHCHEUN

Tulayeva, A.G., Dotsent, Candidate of Chemical Sciences

Kleshoheva, G.V., Kus'mina, V.P.

A Textbook Required by Future Teachers (Uchebnik, nushnyy

budushohim uchitelyam)

Vestnik Vysshey Shkoly, 1957, # 8, pp 87-89 (USSR)

PERIODICAL: The article is a review of a textbook "Poundations of

Physical and Colloidal Chemistry" (Osnovy fizicheskoy i kolloidnoy khimii) by S.A. Balesin and G.S.Parfenov, approved by the RSFSR Ministry of Education for use at pedagogic institutes. It is pointed out that there was an actual need for such a textbook and that it was warmly welcomed. More than 6 months have since passed, and there is no doubt that the book has greatly assisted students in mastering the complicated physico-chemical regularities. Students have

made better progress this year, and their knowledge has greatly increased. The article enumerates a few deficiencies and mistakes but points out that they do not lessen the

general value of the book. The article contains 1 Russian reference.

Card 1/2

AUTHOR:

. TITLE:

ABSTRACT

A Textbook Required by Future Teachers

3-8-28/34

· ABBOCIATION: Pedsenskiy pedagogicheskiy institut (Pensa Pedagogical Institute)

AVAILABLE: Library of Congress

Card 2/2

25079 8/081/61/000/010/012/029 B117/B206

18 8310

Balezin, S. A., Kleshcheva, G. V. AUTHORS:

Phosphates of some amines as corresion inhibitors for TITLE:

steel-20 in water

Referationy/ zhurnal. Khimiya, no. 10, 1961, 288, abstract ICM226 (101226). ("/Uch. znp./ Kosk. ges. ped. in-ts in. PERIODICAL:

v. I. Lenina", no. 146, 1960, 92 - 101)

TEXT: It was established that among monoethenolapine phosphetes, trisubstituted monoethanolamine phosphate (0.01 moles/1) has the greatest protective sitest as corrosion inhibitor for steel-20 in tap- and distilled water. Disubstituted phosphate (0.04 moles/1) has a lower protective effect, and monosubstituted monoethanolamine phosphate a still lower one. [Abstracter's note: Complete translation.]

Card 1/1

CIA-RDP86-00513R000723020012-4" APPROVED FOR RELEASE: 06/19/2000

Phosphates of certain asines as inhibitors of steel-20 corrosion
in water. Uch. sap. MCPI no.146192-101 '60. (MIRA 1514)
(Amino compounds) (Phosphates)
(Steel--Corrosion)

## QURVICH, D.B.; KLESHCHEVA, M.S.

Potentiometric analysis of sulfuric and perchloric acids in acetylating mixtures. Plast.massy no.8:61-62 '60. (MIRA 13:10) (Sulfuric acid) (Perchloric acid) (Acetylation)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723020012-4"

# BALARDINA, V.A.; KLESHCHEVA. M.S.; KUZMETSOVA, G.S. Determination of the composition of a mixture of acetaldehyde, methanol, and vinyl acetate with the aid of gas-liquid partition chromatography. Plast.massy no.261-62 '63. (MIRA 16:8) (Acetaldehyde) (Vinyl acetate) (Gas chromatography)

BALANDINA, V.A.; DEMENT'YEVA, M.I.; KLESHCHEVA, M.S.; TURKOVA, L.D.

Determination of the composition of crude vinyl acetate derived from carbide acetylene. Plast.massy no.4164-65 163. (MIRA 1614)
(Vinyl acetate) (Acetylene)

BALANDINA, V.A.; KIESHCHKYA, M.S.; KUZNETSOVA, G.S.; TURKOVA, L.D.

Quantitative evaluation of chromatograms with the aid of a detector of heat conductivity. Zhur.anal.khim. 18 no.7:808-810 Jl '63. (MIRA 16:11)

1. Scientific-Research Institute of Polymerization Plastics and Experimental Plant, Leningrad.

## KLESHCHKVA, Ye.P. (Nosdow).

Problems as a method of teaching basic chemical concepts in the 7th class.

Khim.v shkole no.5:42-45 8-0 '53.

(Chemistry-Study and teaching)

KLESHCHEVA, (C. C. EPHITFIN, D.S.; TEVETKOV, L.A.; GLORIOSOV, P.A.;
KIMBECHEVA, B.P., redakter; MAIROVA, B.B., tekhnicheskiy redakter.

[Problems of training in practical applications in the teaching of chemistry] Veprosy politekhnicheskage ebuchenila v prepedaranii thinii, Meskva, Ges. uchebne-pedageg. isd-ve, 1954, 157 p.(KLRA 718)

(Chemistry-Study and teaching)

PAVLOY, B.A.; SOLOY'YEVA, A.S.; LUK'YAROV, P.M., professor, redaktor; ILESECRIVA, Te.P., redaktor; SHIKIN, S.T., tekhnicheskiy redaktor

[Technology of inorganic materials] Tekhnologiia neorganicheskikh veshchestv. Pod red. P.M.luk'ianova. Moskva. Gos. uchebno-pedagog. izd-vo Ministerstva prosveshcheniia REFSE, 1954. 174 p. (NLEA 7:8)

(Chemicals--Industry)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723020012-4"

**元度不是** 

KLESHCHEVA, Ye.P.; THTERIN, N.L. (Neskva).

Exhibition of school equipment and teaching materials. This, v shkole 11 no.6:75-76 E-D 156. (HLEA 9:12) (Chemical laboratories)

CIA-RDP86-00513R000723020012-4" APPROVED FOR RELEASE: 06/19/2000

KLESHCHEVA TE. F.
MPSHTMYN, D.A.; KLASHOHMYN, To.P.

Conducting an elective course in chemical technology in a secondary school. Politekh. obuch. no.4:17-23 Ap 158. (MIRA 11:3) (Chemistry, Technical)

KLESHCHEVA, Yelena Pavlovna; GORSHKOVA, Yekaterina Alekseyevna; FUCHKOVA, Nina Ivanovna; GRACHEV, A.P., red.; LAUT, V.G., tekhn.red.

[Methods of teaching the subjects of oxides, bases, acids, end salts] Metodika isuchenia okislov, osnovanii, kislot i solei.

Moskva, Isd-vo Akad.pedagog.nauk REFER, 1960. 102 p.

(MIRA 13:10)

(Chemistry--Study and teaching)

## KLESHCHEVA, Ye.P.; ZHUKOVSKAYA, V.S.

Connection between a course on chemistry and instruction at a plant. Khim. v shkole 15 no.3:29-35 My-Je 160. (MIRA 14:7) (Education, Cooperative) (Chemistry-Study and teaching)

CIA-RDP86-00513R000723020012-4" APPROVED FOR RELEASE: 06/19/2000

THE THE STATE

GLORIOZOV, Pavel Aleksandrovich; KLESHCHEVA, Yelena Pavlovna, starshiy nauchmy sotr.; SHAPOSHNIKOVA, A.A., red.; NOVOSELOVA, V.V., tekhn. red.

[Methodology of teaching chemistry in eight-year schools; the seventh grade] Metodika prepodavania khimii v vos'miletnei shkole; VII klass. Moskva, Izd-vo Akad. pedagog.nauk RSFSR, 1961. 199 p. (MIRA 15:7)

1. Chlen-korrespondent Akademii pedagogicheskikh nauk RSFSR (for Gloriozov).

(Chemistry-Study and teaching)

# Teaching chemistry in schools of Csechoslovakia. Ehim. v shkols 17 no.2183-87 Nr-ap '62. (Osechoslovakia—Chemistry—Study and teaching) (Osechoslovakia—Chemistry—Study and teaching)

SAVICH, T.Z.; KLESHCHEVA, Ye.P.

Contact between the teaching of chemistry in eight-year schools and life. Khim. v shkole 17 no.5:33-41 S-0 '62. (MIRA 15:9) (Chemistry-Study and teaching)

KLESHCHEVA, Z. A., Cand Med Sci (diss) -- "The effectiveness of the combined effect of certain insecticidal and bactericidal preparations under experimental conditions". Perm', 1960. 17 pp (Perm' State Med Inst), 150 copies (KL, No 15, 1960, 139)

# KLESHCHEVICH, N.F. [decoased]; ZARETSKAYA, A.D.

Solar heating of seeds reduces disease incidence in wheat.

Zashch. rast. ot vred. i bol. 5 no.9:25 S '60. (MIRA 15:6)

(Wheat—Diseases and pests)

(Solar heating)

- 年3年一年4人指出世到了更多的田里是最大的

## KLESHCHEVICH, V.A.

Small machinery for the construction of pipelines, Stroi, tropprov. 8 no.617-9 Je '63. (MIRA 1617)

SOV/130-58-7-20/35

AUTHOR: Kleshchevnikov. A.

TITLE: A Vocation (Prizvaniye)

PERIODICAL: Metallurg, 1958, Nr 7, p 36 (USSR)

ABSTRACT: This is a biographical sketch of Luk'yan Viktorovich silitskiy, who worked on the construction of the Kuznetsk Metallurgical Combine and stayed on as a blast-furnace worker. He showed great ability and is now senior furnaceman. Among the measures which he has been instrumental in securing are an improved runner-making procedure and the adoption of a claylined runner slag trap. There is 1 figure.

ASSOCIATION: Kuznetskiy metallurgicheskiy kombinat

(Kuznetsk Metallurgical Combine)

h in the

Uard 1/1 1. Steel industry--USSR 2. Personnel--USSR

## "APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723020012-4

ACC NR: AR6016227  AUTHORS: Inyutkin,	SOURCE CODE: UR/0058/6  A. I.; Kleshchinskiy, L. I.	5/000/011/2054/2054
TITLE: X ray diffr period of the <u>cryst</u> SOURCE: Ref. zh. F	raction determination of the characteristic to tal lattice of mercury telluride	emperature and the
REF SOURCE: Sb. Fi in-ta, L., 1965, 27	zika. Dokl. k XXIII Nauchn. konferentsii Len.	ingr. inzhstroit.
A	ry compound, telluride, x ray diffraction stu	dy, crystal lattice
	4.4.4	to of the charac-
teristic temperatur (up to 25%). The d lying between 10 am	are presented of x-ray diffraction measurements $(\theta)$ and the lattice period of HgTe produced dependence of $\theta$ on the percentage of excess mand 15%. The lattice constant does not depend 11 practical purposes. [Translation of abstraction of abst	i with excess lig ercury has a maximum on the excess-mer-
teristic temperatur (up to 25%). The d lying between 10 am	re (0) and the lattice period of HgTe produced lependence of $\theta$ on the percentage of excess $m$ and 15%. The lattice constant does not depend	i with excess lig ercury has a maximum on the excess-mer-

KLESCHEVNIKEVA, S.T.

AUTHOR: Kleshchevnikova, S.I., Pokrovskiy, Ya.Ye. 57-8-1/36

Rumyantseva, Ye.I.

TITLE: Preparation of Pure Si by the Thermal Decomposition of

Silane (Polucheniye chistogo kremniya termicheskim raslozheniyem

silana)

PERIODICAL: Zhurnal Tekhn. Fiz., 1957, Vol. 27, Nr 8, pp. 1645-1648 (USSR)

ABSTRACT: The method as well as the apparatus are described, Monosilane was produced by means of the disproportionation of triethoxi-

silane in presence of metallic sodium and was subjected to thermal decomposition after a simplest kind of purification. The decompsition was carried out on a tantalum band which was heated with current to 950°. The bark of polycrystalline Si forming on this occasion can be separated from tantalum in form of a bar. The bar can be used for a sonal recrystallisation. The monocrystals obtained after a sonal melting of the Si bars without crucibles have a specific electric resistance of up to 50 0hm per cm and a

life of the electrons not in equilibrium of up to 300 cusec.

There are 2 figures and 2 Slavic references.

ASSOCIATION: Moscor State University in . N.V. Longonosov (Moskovskiy gosudarst-

vennyy universitet imeni M.V. Lomonosova)

AVAILABLE: Library of Congress

Card 1/1

POKROVSKIY, Ya.Ya.; KLESHCHEYHIKOYA. S.I.: KUNYAHTSEVA, Ya.I.

Some improvements in the production of pure silicon by the thermal decomposition of silane. Fig. tver. tela 1 no.6:999-1001 Je 159.

(MIRA 12:10)

1. Moskovskiy gosudarstvennyy universitet, Fisicheskiy fakul'tet. (Silicon) (Silane)

S/193/62/000/009/001/002 A004/A101

AUTHORS:

Reybakh, M. S., Tsirlin, A. M., Kleshchevnikova, S. I., Volkov, V. L.,

Matveyev, B. I., Kazakova, N. V.

TITLE:

Film-type apparatus for the continuous triethoxysilane synthesis

PERIODICAL: Byulleten' tekhniko-ekonomicheskoy informatsii, no. 9, 1962, 21 - 23

TEXT: This new apparatus for the continuous triethoxysilane synthesis, in which the reaction and desorption zones are separated, has been developed by an organization of the Gosudarstvenny komitet po khimii (State Committee on Chemistry) at the Council of Ministers of the USSR. The apparatus is a film-type mass-exchange column, whose design and operation are described. A table gives comparative data on the triethoxysilane synthesis in film-type and bubbler apparatus. The raw material consumption in the former is only half of the latter, while the output of the film-type apparatus is by 25% higher than that of the bubbler type. Comparing the technical and design data of the continuous film-type apparatus with those of the periodic bubbler apparatus, it is shown that the working volume and hydraulic resistance of the film-type apparatus are considerably lower than

Card 1/2

S/193/62/000/009/001/002 A004/A101

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Film-type apparatus for the ...

those of the bubbler apparatus, while the specific surface of heat exchange and the specific surface of phase contact are many times larger (345 and 130 times respectively), which ensures a sharp reduction in desorption time. There are 1 figure and 2 tables.

Card 2/2

8/191/62/000/012/007/015 B101/B186

**AUTHORS:** 

Volkov, V. L., Kafyrov, M. I., Kleshchevnikova, S. I.,

Rumyantseva, Ye. I.

TITLE:

Synthesis of triethoxy silane

PERIODICAL:

Plasticheskiye massy, no. 12, 1962, 28-29

TEXT: Triethoxy silane is synthesized by bringing trichlorosilane into reaction with ethanol at 25-30°C without using a solvent. The following conditions must be satisfied: (1) In the reaction, the component ratio must be strictly adhered to. The volume ratio indicated is: SiHCl3:C2H5OH-1:1.75.

(2) The water content of the ethanol must be less than 0.2%. hydrogen chloride formed must be evacuated rapidly from the reaction vessel. This was secured by passing through nitrogen at a rate of 1-1.5 1/min per liter of reacting liquid, by increasing the nitrogen rate to 3-4 1/min when the introduction of components was completed, and by heating to 50°C when the Cl content of the reaction mixture had reached 7%. The flow of nitrogen was stopped when the Cl content dropped below

Card 1/2

Synthesis of triethoxy silane

\$/191/62/000/012/007/015 B101/B186

1%. The product was rectified. Yield 85%. The losses in SiH(OC<sub>2</sub>H<sub>5</sub>)<sub>3</sub> are due to the entrainment of reaction products in the HCl and H<sub>2</sub> currents ( $\sim$  5%), to side reactions (7-10%) and to rectification losses ( $\sim$  1%). There are 1 figure and 1 table.

Card 2/2

45793 8/191/63/000/001/006/017 B101/B186

AUTHORS:

Klashohevnikova, S. I., Levina, Ye. F., Rumyantseva, Ye. I.

TITLE:

Purification of tri- and tetraethoxysilanes from chlorine-

containing compounds

· PERIODICAL:

Plasticheskiye massy, no. 1, 1963, 25-26

TEXT: Chloring-substituted silanos which readily hydrolyze, reducing the stability of the finished product and corroding the apparatus, are formed as by-products in the synthesis of tri- and tetraethoxysilanes from chlorosilane and ethanol. To eliminate them, it is suggested that bubbling with N<sub>2</sub> which removes most of the resulting HCl should be followed by bubbling with anhydrous NH<sub>3</sub> gas. Triethoxysilane with a chlorine content of 1.2-1.5% was bubbled in a mixer with NH<sub>3</sub>, taking 20-25% more NH<sub>3</sub> than required to bind the Cl. Amino compounds were formed as follows:

HSi(OC<sub>2</sub>H<sub>5</sub>)<sub>3-n</sub>Cl<sub>n</sub> + nNH<sub>3</sub> -> HSi(OC<sub>2</sub>H<sub>5</sub>)<sub>3-n</sub>(NH<sub>2</sub>)<sub>n</sub> + nNH<sub>4</sub>Cl. The reaction Card 1/2

Purification of tri- and ...

S/191/63/000/001/006/017 3101/3186

mixture remained in the vessel for 1.5-2 hrs to polymerize the amine precipitate, and was then filtered. The filtrate was fractionated. The fraction boiling at 131-134°C consisted of pure  $HSi(C_2H_5)_3$  and contained neither chlorine nor nitrogen. Conmercial tetraethoxysilane containing 0.5% Cl was purified in the same manner.

Card 2/2

L 16294-65 EWT(m)/EPF(c)/EWP(1)/T Pc-4/Pr-4 RM

ACCESSION NR: AP4045842

\$/0064/64/000/009/0659/0663

AUTHOR: Reybakh, M. S.; Tsirlin, A. M.; Kleshchevnikova, S. I.

TITLE: Continuous synthesis of triethoxysilane

SOURCE: Khimicheskaya promy\*shlennost', no. 9, 1964, 659-663

TOPIC TAGS: triethoxysilane, triethoxysilane synthesis, continous synthesis, trichlorosilane, absolute alcohol, HCl removal, triethoxysilane dissociation, iriethoxysilane yield, HCl desorption

ABSTRACT: In the search for higher yields (above the maximum 65%) of the title compound, the influence of technological factors (period of contact of the reaction product with HCl, ratio of starter materials, reaction temperature) upon the vield was examined. The experimental laboratory equipment is figured. Reaction specimens were tested for amount of triethoxysilane, chlorine, HCl, tetraethoxysilane and alcohol. The period of contact was determined at 30C, the amount of the starter materials, i. e. HSiCl<sub>3</sub> and absolute ethanol was 100 and

Card 1/2

L 16294-65

ACCESSION NR: AP4045842

175 cc in all experiments, the influence of temperature was tested between 30 and 100°C. Dissociation of the synthesized triethoxysilane (80% yield) under the influence of HCl was observed as early as one minute after the start of the reaction. Optimal alcohol addition was found at 97-98% of the stoichiometric value, with a 2-3% excess of trichlorosilane, to make up for its possible evaporation. The optimize temperature, 30°C was obtained upon mixing the starter materials at 20°C. Removal of HCl from the reaction zone is required for high yields, thus necessitates a continuous process which is described for use in the pilot equipment. Its main feature is a film column for HCl desorption, HCl is then removed together with the blown-through nitrogen, thus remains only about 40 seconds in contact with the reaction mixture. Under these conditions the yield was 97%. This process was used with test-manufacturing equipment and yielded 6 kg triethoxysilane in one hour (97% yield). Orig. art. has: 5 figures, 3 tables and 6 formulas

ASSOCIATION: None

SUBMITTED: 00

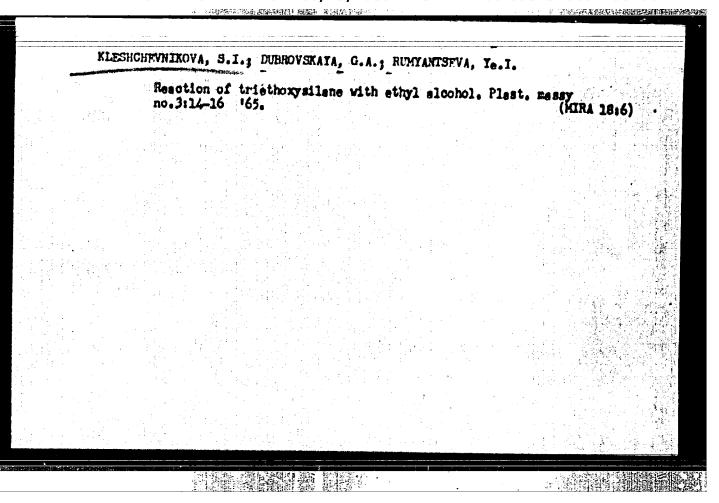
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Card 2/2



L 01875-65 ENI(m)/EFF(c)/ENP(j)/I Fc-4/Pr-4 RM ACCESSION NR: APSOLOSLO

UR/0064/65/000/004/0015/0017 661.715.5-932

A. THURS: Reybakh, M. S.; Teirlin, A. H.; Mozhaykina, A. S.; Kleshchevnikova,

TITLE: A continuous method of producing tetraethoxysilane

SOURCE: Khimicheskaya promyshlennost', no. 4, 1965, 15-17

TOPIC TAGS: tetraethoxysilane, reactor, organic synthesis/NIMO 28 alloy

ARSTRACT: The authors first summarize data from the literature on methods of preparing tetracthoxysilane, and then discuss a method they have studied for the parine synthesis of the compound, with increased year of the latter of the latter of the setup of which is illustrated in the reaction of the setup of which is mounted in the reaction character of a film column (5). The column was prepared from kid a facility of the column, candidated a high. The reaction mixture pours over the lip of the column, ward-flowing film. A counter current of nitrogen passes through the column from 1/3

### "APPROVED FOR RELEASE: 06/19/2000 CIA-

CIA-RDP86-00513R000723020012-4

L 51875-65 ACCESSION NR | APSO10549

the reducer (6) and the drier (7), which is filled with seclite. A heating jacket (8) permits warming of the downward-flowing liquid. From the collecting chamber the product-raw material is ready for rectification. Hydrogen chlorite and nitroped are removed from the column through a reflux convenser. It is could by write.

Apper ments show that the yield of chloroethers isolated materials with its rease in a conol. Several comparative tests were made, at this is a calculated that is proposed is very promising. The yield of tetractority lane may amount of the initial silicon tetrachloride, and this method considerably rate as the amount of equipment and the expense of rectification. Orig. art. has:

ASSOCIATION: none

SUBMITTED: 00

ENCL: 01

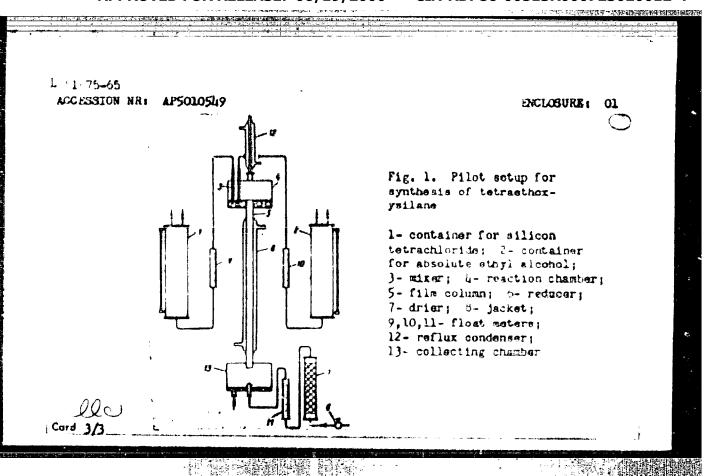
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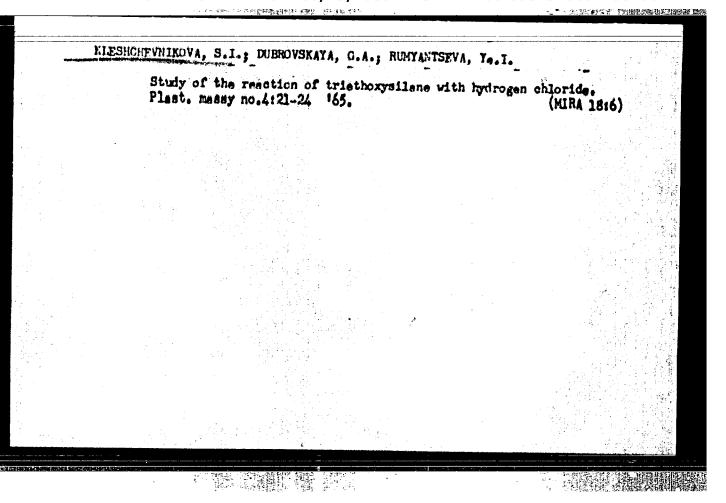
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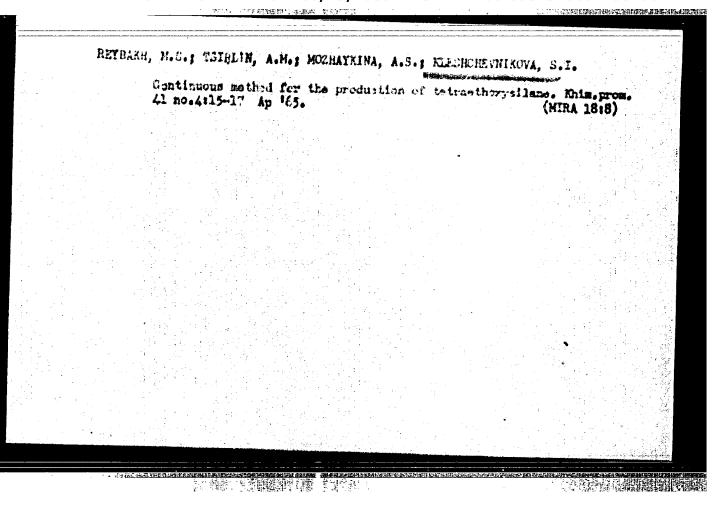
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Card 2/3







L 075/3-67 EMT(m)/EMP(j) RM ACC NR: AP6027906 SOL	JRCE CODE: UR/0064/66/000/008/0015/0017
AUTHOR: Kleshchevnikova, S. I.; Dubrovs	kaya, G. A.; Rumyantseva, Ye. I.
ORG: none	32
TITLE: Ethyldiethoxysilane aynthesis	B
SOURCE: Khimicheskaya promyshlennost',	no. 8, 1966, 15-17
ABSTRACT: Ethyldiethoxysilane synthesis studied. The synthesis was effected wit volumentric ratio of C <sub>2</sub> H <sub>5</sub> SiHCl <sub>2</sub> : C <sub>2</sub> H <sub>5</sub> OH $\sim$ 66%. At a 5% excess of ethyl alcohol silane yield decreas to 44.% and at $\sim$ 2% of the ethyldiethoxysilane increases. A 70-80 C to 50-60 C results in a decrease of its chloring content. The following	ogen chloride, chlorine, inergade synthesis, hloric acid, equilibrium constant, chemical and side reactions during the synthesis were hethyldichlorsilane and ethyl alcohol. At a = 1:0.98 the ethyldiethoxysilane yield is the chlorine content of the ethyldiethoxy-underweight of alcohol the chlorine content decrease in the synthesis temperature from of ethyldiethoxysilane yield and an increase three reactions ere carried out to ascertain Cilsii(OC,Hi), + C,HiOII -> C,HiSi(OC,Hi), + He (I);
	- CHISH(OCHI): + HO ==== CHISH(OCHI)O + CHIOH (II)
Card 1/2 UDC 661.7/8.5	, CH,SIH(OCH,), + CH,OH — H, + CH,SKOCH,), (III)

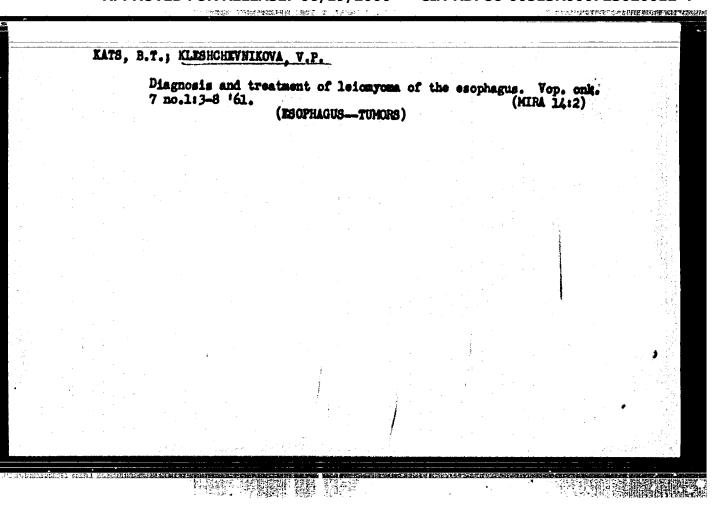
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A STAIN LESS COMES CONTRACTOR L'ANGELLE LA CONTRACTOR L'ACCESSE L'

EL'KIN, M.A.; KLEGHCHEVNIKOVA, V.P.

Extensive resection of the small intestine in volvulus. Vest. khir. no.10:115-117 '64. (MIRA 19:1)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav. - prof. S.V. Geynats [deceased]) Leningradskogo pediatricheskogo meditiinskogo instituta.



# ELESHCHEVNIKOVA, Y.P.; EL'KIN, M.A.

Stometh resection in stenosis following burns. Klin.khir. no.9230-33 8 162. (MIRA 1685)

1. Khirurgicheskoye otdeleniye Leningradskoy bol'nitsy imeni Buybysheva i khirurgicheskoye otdeleniye bol'nitsy meditsinskoy sanitarnoy chasti savoda "Bol'shevik." (STCHACH—SURGERY) (BURNS AND SCALDS)

KOROTKOVA, T.M.; IVANOV, A.A.; KOEDRAT'YEV, A.P.; KLESHCHEVNIKOVA, V.P.

Sergei Vladimirovich Geinats; obituary. Vest.khir. 83 no.8:155-156
Ag '59.

(GRINATS, SERGEI VLADIMIROVICE, 1898-)

# KLESHCHSVNIKOVA, V. P.

"Clinical Aspects and Surgical Treatment of Cancer of the Cardiac and the Lower Third of the Esophagus." Cand Med Sci, Leningrad State Pediatrics Medical Inst, Leningrad, 1955. (KL, No 10, Mar 55)

SO: Sum. No. 670, 29 Sep 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

EL'KIE, M.A.; KLESHCHEWHIKOVA, V.P. (Leningrad, ul. Farata, d.29, kv.7)

Simultaneous resection of the small intestine and signoid in volvulus. Vest.khir. no.9:118-121 '61. (MRA 15:3)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav. - prof. S.V. Ceynats [decoased]) Leningradskogo pediatricheakogo meditsinskogo instituta.

(IHTESTINES—SURGERY) (INTESTINES—OPSTRUCTIONS)

## "APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723020012-4

KLESHGELVSAIY, S. YA.

Ships-Maintenance and Repair

Improve planning and accounting of ship repair work. Ryb. khoz. 28, no. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress,

\_1953. Unclassified

KI ESHEHINOV, M. [A]

20735. Kleshahinov, M. Ukroshcheniye podzemiykh vod. ZPrimeneniye moshehnykh turbinnykl nasosov v ugol'nykh shakhtakh Z. Ill. S. Vetsrumb. Tekhnika — molodezhi, 1949, No. 6, s. 5-6

SO: LETOPIS ZHURNAL STATEY - Vol. 28, Hoskva, 19/9

SHUKHARDIN, Semen Viktorovich; KLESHCHIKOV, N.A., otv.red.; PROKOF'YEVA, N.B., red.isd-ve; PCLYAKOVA, T.V., tekhn.red.

[Fundamentals of the history of technology; development of theoretical and methodological problems] Osnovy istorii tekhniki; opyt rasrabotki teoretichaskikh i metodologichaskikh problem.

Moskva, Isd-vo Akud, nauk SSSR, 1961, 277 p.

(Technology)

· PERSONAL CONTRACTOR CONTRACTOR

(MIRA 14:2)

SKOPKOVSKIY, Ta. [Skorkevsky, J.], inshener; RIHPPINIKHA, K. [Rericha, K.] inshener; KLESHCHINOT, M.A., gornyy inshener, [translater].

Giscohoslovak 150-ten electric leconotives for strip mining. Gor. shur. R0.5117-22, Ny 157. (MEA 10:6)

1. Eaved in. V.I. Lenima, (g. Pl'sen'.). (Mine railroads)

(Csechoslovakia--Electric leconotives) (Mine railroads)

GOUNKA, V., [Housem, Vlastimil, Lag.], ELERHOHIMOT, M.A., inch., [tremslator], FEDYUKIH, V.A., inch., obv. red.; DMITRIYEVA, L.H., rel. ind-ve,; ALADOVA, Ve.I., tekhan, red.

[Hining operations in quicksand]. Germye reboty v plyvumskb. Moskva, Ugletekhindet, 1958. 101 p. [Abridged tremslation from the Greeh].

(Mining engineering)

(MIRA 11:11)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723020012-4"

門 译 还 是非常是的 對數 医生 药

L 21393-66 EWT(m)/ETC(f)/EWG(m)/EWG(m)/EWG(m) ID(g) RDM/D
ACC NRI AF6003796 SOURCE CODE: UR/O181/66/003/001/0240/0241

AUTHORS: Inyutkin, A. I.; Kleshchinskiy, L. I.; Sharavskiy, P. V.

ORG: Leningrad Construction-Engineering Institute (Leningradskiy //
inzhenerno-stroitel'skiy institut)

TITLE: Determination of the near-order parameters in chalcogenide
of lead by diffuse scattering of x rays

SOURCE: Fizika tverdogo tela, v. 8, no. 1, 1966, 240-241

TOPIC TAGS: lead compound, x ray scattering, sulfide, telluride, selenide, semiconductor property, x ray diffraction analysis,
forbidden band

ABSTRACT: The authors attempted to apply to the measurement of near-order parameters of semiconductor materials procedures initially of lead/bis, PGSe, and PdTe./ The investigations were chalcogenides tureless polycrystals, using diffuse-scattering diffraction patterns.

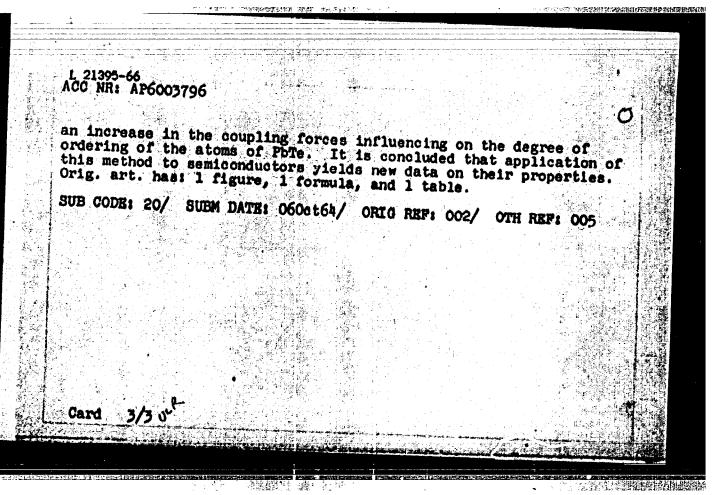
Card 1/3

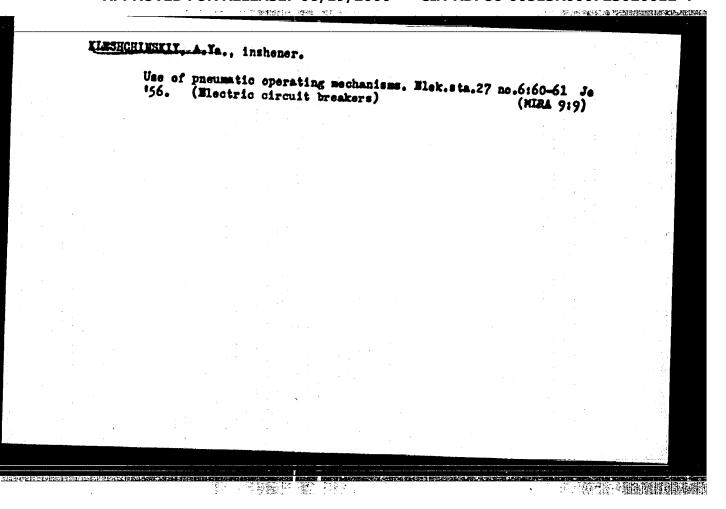
### L 21395-66 ACO NR: AP6003796

The degree of near order was modified by heat treatment. The parameters themselves were measured by an ionization method using URS-50 apparatus with Cuka radiation. The measurements were made in the range of angles from \$ to 26°. The near-order parameter chosen was the quantity  $c_i = 1 - p_i^{AB}/C_B$ , where i is the number of the coordination sphere,  $C_B$  the concentration of atoms of species B, and  $P_A$  is the probability that an atom B is located at a distance if from the atom A. The results show the following: 1. A change in the numerical value of the near-order parameter during the first two deformation damage during the preparation of the samples. Subsequent changes of this parameter must be regarded as changes in the ordering tion sphere is the same for all three compounds, it is much higher for PhTs at the second sphere. 3. The change in the near-order parameter as a function of the heat treatment is seen most strongly in PbTe. In the latter, the width of the forbidden gap also increases, and this rather unusual circumstance can be attributed to

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**法上共公司经验的证据** 





Operation of 110 kv. air circuit breakers made by the AEO firm.

Elek.sta. 27 no.7156 Jl '56. (MLEA 9:10)

(Electric circuit breakers)

Use and impregnation of spruce supports. Elek.sta. 27 no.11:46-48
N '56.
(Wood--Preservation) (Spruce) (Electric lines--Poles)

Using air compressor assemblies. Elek.sta. 28 mo.1:81-84 Ja '57.

(Gas turbines) (Air compressors)

(MEA 10:3)

YEFREMOV, I.S., doktor tekhn. neuk; REKITAR, R.A., insh.;
ROZENBERG, S.V., kand. ekon. neuk; BLATBOV, M.D., kand.
tekhn. neuk; VIL'KOMETSKIY, M.S., insh.; TOMILIN, A.I., insh.;
POPELYASH, V.N., insh.; ZAGAYNOV, N.A., kand. tekhn. neuk;
PINKEL'SHTEYN, B.S., insh.; MARINOV, I.A., insh.; ISTRATOV, V.P.,
insh.; MARGOLIN, I.S., insh.; ENGEL'S, G.G., insh.; ANTOMOV,
V.A., insh.; SOKOLOV, V.D., insh.; KLESECHINSKIY, B.K., insh.;
IL'INSKIY, A.I., retsensent; PAPKOV, N.G., retsensent; SHIRMOV,
G.M., retsensent; SHPOIXANSKIY, M.N., otv. red. toma; VOLOCHMEV,
V.N., red.; TROFIMOV, A.N., red.; RACHEVSKAYA, M.I., red. isd-va;
LELYUKHIN, A.A., tekhn. red.

[Technical manual on city electric transportation in three volumes] Tekhnicheskii spravochnik po gorodskomu elektrotransportu v trekh tomakh. Redkollegiia: V.H.Volochnev, A.N. Trofimov, M.N.Shpolianskii. Moskva, Isd-vo M-va kommun. khos. RSFSR. Vol.1. [City electric transportation (general part)] Gorodskoi elektricheskii transport (obshchaia chast'). Otv. red. toma M.N.Shpolianskii. 1961. 726 p. (MIRA 15:4) (Streetcars) (Trolley buses)

HIKOLAYEV, M.I.; KLESHCHINSKIY, B.K.; OVCHINNIKOVA, V.V., red. isd-va;

KHENOKH, F.W., tekhn. red.

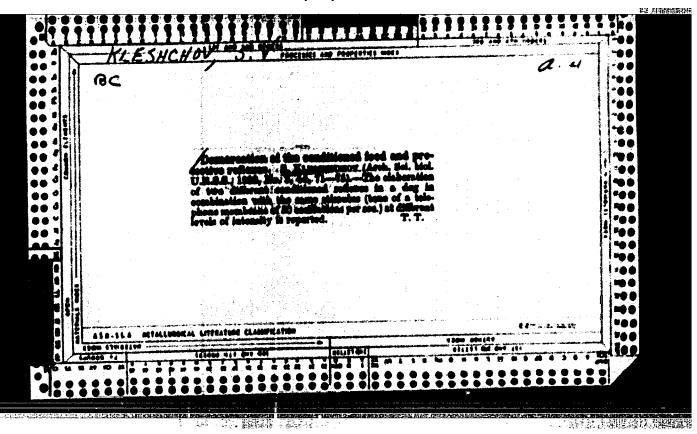
[Centralised traffic control and communication devices in municipal electrified transportation] Ustroistva signalizateii, tsentralisateii, blokirovki i sviasi na gorodskom elektro-transporte. Moskva, Isd-vo M-va kommun.khos.RSFSK, 1962. 177 p.

(Local transit—Electronic equipment)

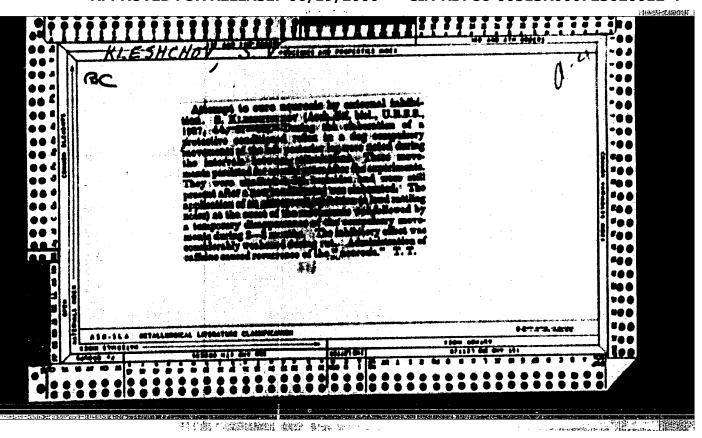
(Electronic traffic controls)

・ 特 ( 市) (時代 m)/ 原作( o)/で/原作( t ACCESSION NR : AR 5005456 5 12" 4 164, 1 Box 1 perch 184 7. 2 4: 10 10 10 10 14 14 4h Tribonal Same Elektronika i yeya primeneniye, ovedroyy ter. Ata 12840 A The Klannchinskiy, L. I., Khabarov, B. N., Sharavskiy, F. V. TITLE: Determining the solid-solution Mait in IndsCdTe CITED SCURCE: Sb. Fizika. Dokl. na 22 Mauchn. konferentsii. Leningr. inzh.stroit. in-t, L., 1964, 12-15 TOPIC TAGS: solid solution, InasCdTe solid solution TRANSLATION: A complex investigation of InAs-CdTe solid solutions was consucted for determining the limit of CdTe solubility; the investigation was intended for verifying the assumption that the cause of limited solution to fiddle in instrand As I as in the degree of dissociation if GdTe due to the invariability of s a searlition madium. Specimens of ten compassions, to state of the 1.5. while repared from semiconductor-purity materials. Mist similar materials, and remay diffraction studies revealed that the limit of a condity of EdTe in . As , as ar; reximately at 20% CdTe Bibliography: 4 titles. SUB CODE: 88 ENCL: 00 Card 1/1 KC.

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## "APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723020012-4

TESKORCI, S. V.

Kleshchov, S. V. - "The effect of the combined use of various pharmacological substances on the conditioned-reflex activity of dogs," Trudy fiziol. laboratoriy im. Pavlova, Vol. XV, 1949, p. 361-63

SO: U-4355, 14 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 15, 1949)

Kleshchov, S. V. - "The effect of acute blood losses on the highest nervous activity,"
Trudy fiziol. laboratoriy im. Pavlova, Vol. XV, 1949, p. 361-63
SO: U-4355, 14 August 53, (Letopis 'Ehurnal 'nykh Statey, No. 15, 1949)

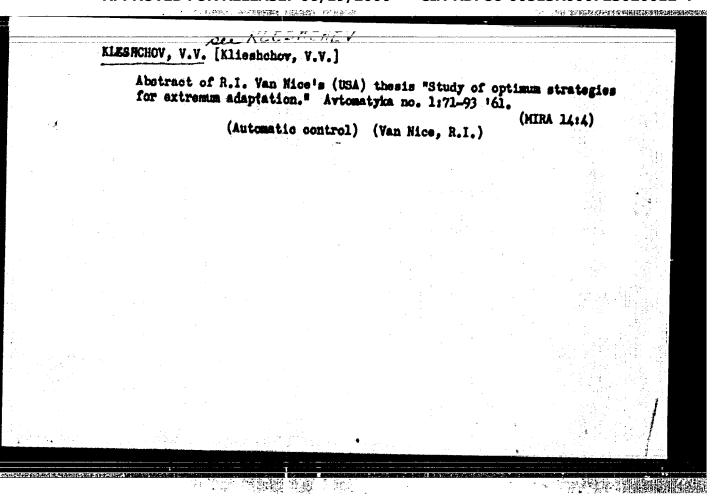
KLESHCHOV, S. V.

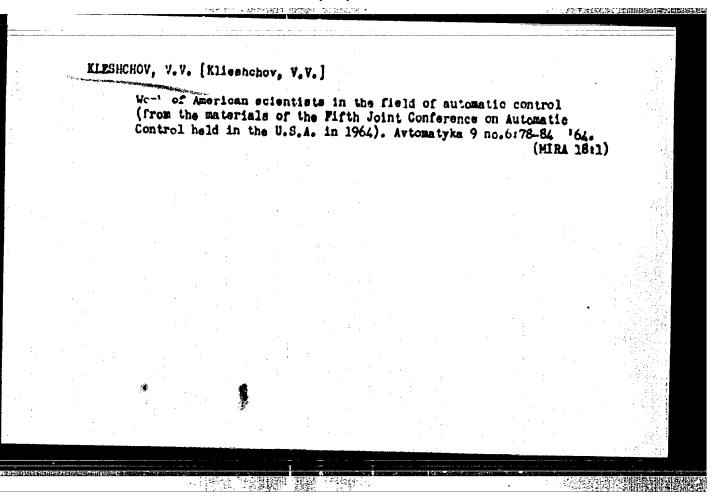
Kleshchov, S. V. - "Profound damage to the highest nervous function of a dog (experimental psychosis) after repeated reactions of toxic doses of camphor," Trudy fisiol. laboratorii im. Pavlova, Vol. XV, 1949, p. 386-93

S0: U-4355, 14 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 15, 1949)

Using the magnetephene in schools. Fis.v shkele 16 no.4:93-94
J1-Ag '56. (MEM 9:9)

1.1-ya srednyaya shkela.
(Schools—Azercises and recreations)





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12 机斯维尼 "各国超上部" 经基础 经经过等户

KLESHCHOVA, F.E.; ATRAPET' MATE, E.Sh. redaktor; TARASOV, G.A., redaktor; SMIRROVA, A.V., tekhnicheskiy redaktor.

[Bibliography on conditioned reflexes]Bibliografiia po uslovnya refleksam. Pod red. E. Sh.Airapet'iantsa. Noskva, Jad-vo Akademii nauk SSR. Vol.1, 1901-1936 gg. 1955. 254 p. (MERA 8:6) (Bibliography-Conditioned response)

"Bibliography on conditioned reflexes" N.K. Elegandry, Reviewed by A. Frenkel. Zh. vys. nerv. deiat. 5 no.6:927-923 N.D 33. (MIRA 913)

(BIBLIOGRAPHY--COMDITIONED RESPONSE) (KLESHDHOVA, N.K.)

and the second second

Kleshchuk, N. S. and Pustovalov, M. N. - "Treatment of lung hemorrhages by internal introduction of hemolyzed blood," Trudy Omskogo ned. in-ta im. Kalinina, No. 10,

SO: U-3600, 10 July 53, (Letopis 'Zhurnal 'liykh Statey, No. 6, 1949).

29632 8/142/61/004/003/015/016 E192/E382

9.2585 (1144)

AUTHOR: Kleshchuk, V.G.

TITLE: Some synchronisation characteristics of klystrons and magnetrons operating with a long line

PERIODICAL: Izvestiya vysshikh uchebnykh zavedaniy, Radiotekhnika, v. 4, no. 3, 1961, pp.348 - 351

TEXT: The equivalent circuit of an oscillator loaded with a long line can be represented by means of two tuned coupled circuits, the first of which represents the resonant system of the oscillator, while the second circuit represents the transmission line at the resonant frequency. The circuit is therefore valid if only one unstable region is considered. The physical picture of the behaviour of the system in the non-stable region is analogous to the phenomena occurring in systems with two degrees of freedom. It should be possible, therefore, to extend some of the results of the synchronisation theory of the systems with two degrees of freedom to an oscillator loaded with a long line. It is known that in such systems two synchronisation regions are observed (Ref. 1 — Card 1/8 C

29632 S/142/61/004/003/015/016 Some synchronisation characteristics. E192/E382

I.L. Bershteyn and Ye.I. Ikonnikov - ZhTF, 1934, 4, 172; Ref. 2 - A.M. Shauman and P.N. Zanadvorov - IVUZ, Radiofizika, 1959, 2, no. 2, 267). In the following, some results of experimental investigation of this problem for a klystron and a magnetron are reported. The block diagram of the experimental equipment is shown in Fig. 1. A 10-cm klystron was used and its resonator was modulated by means of rectangular pulses having a duration of ~= 1.2 mg/and a repetition frequency F = 1 000 p.p.s. The external synchronising signal was provided by a standard generator, type TC-22 (GS-22). Since in pulse operation synchronisation is possible only in those cases when the pulses of the synchronised and the synchronising oscillators are shifted in time, triggering of the modulators of both the generators was performed by a delayed pulse generator, type TMC-2 (GIS-2) (4 in Fig. 1). A system of attenuators 5 was used in order to eliminate any coupling between the klystron and the external generator. The external signal was applied to the system through a coaxial T-junction 6. The length of the transmission line 7 was 5 m. The mismatching of the line Card 2/85

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29632 8/142/61/004/003/015/016 Some synchronisation characteristics..E192/E382

preceding the power meter 8 was achieved by employing a reactive rod 9. By shifting this rod it was possible to change the modulus and the phase of the reflection coefficient of the load. Adjustment of the system was effected by tuning the plungers 10. The envelopes of the high-frequency pulses of the generators were observed by means of an oscillograph 11; the spectrum of the oscillations and the measurement of the synchronisation bandwidth were performed by means of a spectrum analyser 12 . From the measurements on the klystron it was found that as the frequency f of the external source was nearing one of the klystron frequencies, for instance  $f_1$ , a partial pull-in of  $f_1$  by  $f_{BC}$  was observed and as the signal was increased  $f_1$  was replaced by  $f_{BC}$ ; the frequency  $f_2$ then entirely disappeared and a complete synchronisation was achieved. During further changing of the external frequency, the klystron frequency followed f BC . The envelope and the form of the spectrum for this case are shown in a figure. Card 3/65

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29632 Some synchronisation characteristics.E192/E382

When the power of the external signal was reduced, beats were observed inside the synchronisation bandwidth and finally two synchronisation regions could be seen which corresponded to the two frequencies  $f_1$  and  $f_2$ . From these experiments, it is concluded that the presence of a long line results in a successive synchronisation at the two frequencies but, depending on the power of the synchronising signal, an overlapping of the two synchronisation regions is possible. In this case, only one frequency is generated in the unstable region, which means that the system operates at the frequency of the external signal and the long-line effect is entirely eliminated. Similar results were obtained for a magnetron. In particular, the relationship between the power of the external source and the magnetron at which the long-line effect disappears was investigated and the results are shown in Fig. 5. This illustrates the synchronisation bandwidth of the magnetron as a function of the ratio of the power Par of the synchronised generator to the power of the external signal. Curve I of Fig. 5 was taken for the Card 4/8-5

S/142/617004/003/015/016
Some synchronisation characteristics ... E192/E382

case of the absence of a frequency discontinuity, while Curve II is for the case of the frequency jump of 12 Mc/s. From the first curve it is seen that the bandwidth can be increased by increasing the power of the external signal, while the second curve indicates that at a suitable value of the power ratio the synchronisation bandwidth is approximately equal to the magnitude of the frequency discontinuity. There are 5 figures and 2 Soviet-bloc references.

ASSOCIATION:

Laboratoriya elektroniki Sibirskogo fizikotekhnicheskogo NII pri Tomskom gos. universitete im. V.V. Kuybysheva (Electronics Laboratory of the Siberian Physicotechnical NII of Tomsk State University im. V.V. Kuybyshev)

SUBMITTED:

July 27, 1960

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Card 5/8 5

## KLESHCHUNOV, P.P., konstruktor, starshiy nauchnyy sotrudnik

[ND-2 exygen compressor; operating instructions] Kielerednyi doshimaiushchii kompressor KD-2; instruktsiia po ekspluatatsii. Moskva, Gos.nauchno-tekhn.isd-vo lit. po gornomu delu, 1960.
19 p. (MIRA 14:12)

1. TSentral'naya nauchno-issledovatel'skaya laboratoriya TSentral'noy voyenisirovannoy gornospasatel'noy stantsii. (Air compressors)

SHUL'GIN, I.A.; KLESHIN, A.F.; RZHANOVA, T.B.; KHAZANOV, V.S.

Brightness of differently oriented leaves. Nauch. dokl. vys. shkoly; biol. nauki no.3:150-156 '63. (MIRA 16:9)

1. Rekomendovana Institutom fisiologii rasteniy im. K.A.Timiryaseva AN SSSR, kafedroy darvinisma Moskovskogo gosudarstvennogo universiteta im. M.V.Lomonosova i Vsesoyusnym nauchno-issledovatel'skim svetotekhnicheskim institutom.

(Leaves-Optical properties)

## Some results of surgery in Rovno Province during 20 years of Seviet rule and prospective improvement of surgical care in this province. Nov. khir. arkh. no.2:107-111 Mr-Ap '60. 1. Clavnyy khirurg Rovenskogo eblastnogo otdela sdravookhraneniya. (ROVNO PROVINCE—SURGERY)

BOROVYY, Ye.M. (Rovno, ul. Leninskaya, d.3, kv.21); VEL'SKIY, V.M.; KLESHKAN', G.A.

Some problems of training surgical personnel in Rovno Province.
Klinekhire no.9:63-65 8 162. (MIRA 16:5)

1. Khirurgicheskoye otdeleniye (sav. - Ye.M. Borovyy) Rovenskoy oblastnoy bol\*nitey. (ROVNO PROVINCE-SURGERY-STUDY AND TRACHING)

8/118/61/000/002/005/007 A161/A126

AUTHOR:

Kleshko, O.B., Engineer

TITLE:

Photoelectric micrometer wire gage for continuous diamèter measure-

ment in the drawing process

Mekhanizatsiya i avtomatizatsiya proizvodstva, no. 2, 1961, 37-39 PERIODICAL:

TEXT: Design and operation is described in detail of a new photoelectric wire gage developed in the Tsentral naya laboratoriya avtomatiki (Central Automation Laboratory) of the Ministry of Construction REPSR. The principle is explained by a diagram (Pig. 1): The filament of an electric light bulb (1) is in the focus of a lens (2) that transforms the bulb light beam into a parallel beam directed on a diaphragm (4) with two apertures of equal width, but different height (Fig. 1b and 1c). The disphragm splits the beam into I and II. A plate (3) in front of the diaphragm is oscillating horizontally with 50 cps frequency and produces an outphase modulation of the beams. This plate (3) is oscillated by an electromagnetic oscillator (15), and the amplitude is such that the aperture in the diaphragm (4) is not fully closed. The wire (5) moves on guide rollers (16) preventing its shifting. It runs in the way of the beam II, and a Card 1/3

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Photoelectric micrometer wire gage ...

3/118/61/000/002/005/00<sup>4</sup> A161/A126

gate 11) closes the way partly and is moved by an asynchronous two-phase motor (10). The rotary armature motion of this motor is transformed into a straight motion of the gate by a micrometer screw (12) bearing a scale graduated in microns. A hand (14) indicates on this scale the diameter of the wire. Another lens 6). Joins the beams I and II again on the cathode of a photocell (8) where they hre compared (subtracted) and the difference transformed into and voltage (mismutch voltage). A frosted glass (7) dissipates the beams over the whole cathode. The a-c voltage from the photocell is amplified by an electronic amplifier of low frequency (9) and fed to the motor (10) control winding. A capacitor on the amplifier input serves as a filter for the constant component. The polarity of the control winding makes the mismatch voltage move the gate to even out the beams I and II. The system operation is explained in detail. The entire set consists of a primary pickup, an electronic unit, and a secondary indicator. The pickup is installed on a special stand near the drawing mill, and the electronic unit and the indicator may be placed at any convenient place in 5-10 m distance from the pickup. The indicator has two scales - in millimeters and in microns. The reading transmission system includes two selsyns. The gage has been tested in shop operation where it worked with an error of not more than  $\pm 5 \mu$ on wires with diameter of 100  $\mu$  to 2 mm. It is also suitable for checking the

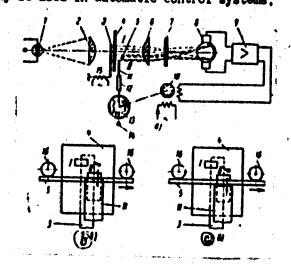
Card 2/3

8/118/61/000/002/005/007 A161/A126 Photoelectric micrometer wire gage wire ovality, or for measuring the cross section of flat watch springs, thread and electric wire insulation. It may be used in automatic control systems.

There are 3 figures.

Fig. 1:

Photoelectric micrometer wire gage



Card 3/3

8/118/62/000/001/004/005 D221/D301

AUTHOR:

Kleshko, O.B., Engineer

TITLE:

Automatic controll of strip thickness in reversible cold

rolling mills

PERIODICAL:

Mekhanizatsiya i avtomatizatsiya proizvodstva, no.  $\mathbf{l}_i$ 

1962, 24-29

TEXT: The Tsentral naya laboratoriya avtomatiki (Central Laboratory of Automation) (Tal.A) has developed a system of automatic control (SAR) which ensures high accuracy of strip thickness. Its feature is the indirect measuring of thickness by the clearance of rolls, using the mill itself as a sort of micrometer. This is expressed by

 $\Delta h = S_0 + \frac{F}{H} - h_0$ , where  $S_0$  is the clearance set without the strip, F is the pressure due to rolling, H the modulus of elasticity of the mill stand, h the nominal thickness of the strip, and h the deviation from this value. A diagram of SAR is given, with a detailed description. The

Card 1/3

Automatic control of strip ...

S/118/62/000/001/004/005 D221/D301

system incorporates auxiliary circuits for compensating inherent errors of measurement. One error is due to the speed depending on the oil film in the bearings of rolls. The second is produced by the temperature effect on the diameter of rolls. The third error is due to the assumption of linear stress strain characteristic of the mill stand. The first is compensated by feeding a speed proportional signal to the adding electronic potentiometer. A special loop including micrometers, a pulse generator and an integrating amplifier, corrects the second and third errors. The last two items form a filter with a controlled passband. It reduces the band width at lower speeds of the mill and increases it at higher speeds. A special arrangement is provided for resetting the transducers measuring the height screw displacements which incorporates a tracer eystem. Talk has developed high accuracy transducer for the above. All these are illustrated and described in detail. The accuracy of the latter is due to the negative feedback provided by a tachogenerator and the non-linear converter. Automatic control of strip thickness was introduced in cooperation with the Leningradskiy staleprokatnyy zavod (Leniograd Steel Rolling Plant) on a four-high cold rolling mill. The

Card 2/3

## "APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723020012-4

Automatic control of strip ...

S/118/62/000/001/004/005 0221/0301

drive for the mill is ensured by d.c. motors. The field excitation coils of motors actuating the height screws have an independent correct supply. The maximum speed of rolling is 4 m/sec. The recordings of thick ness were obtained for hand control and for automatic control; greater regularity appears in the latter case. For more accurate comparison of results a special device measured the total length of strip, as well as the length of strip which indicated deviations from the allowed limits. In the instance of hand control the deviation amounted to 35%, whereas the automatic operation indicated only 19%. There are 3 figures.

Card 5/3

KLESHKO, O.B., inzh.

Automatic control of strip thickness on four-high reversing mills for cold-rolling. Biul. TSIICHM no.3:6-10 '61. (MIRA 14:12)

(Rolling mills)

(Thickness measurement)

(Automatic control)

KLESHKO, O.B., insh.

Automatic control of strip thickness on reversing cold-rolling mills. Hekh. i avtom.proisv. 16 no.1:24-29 Ja '62. (MIRA 15:1)
(Rolling mills)
(Electronic control)

\$/118/62/000/012/001/002 D201/0308

AUTHORS:

Dobronravov, D.N., Kleshko, O.B., and Lyambakh, R.V.,

TITLE:

Automatic control of strip thickness

PERIODICAL:

kiekhanizatsiya i avtomatizatsiya proizvodstva,

no. 12, 1962, 3-8

TEXT: A description is given of the design and analysis of automatic control of the continuous hot rolling process of a thin strip, as carried out at the rolling mill '2500' of the Magnitogors-kiy metallurgicheskiy kombinat (Magnitogorsk Metallurgical Combine). The mill has 4 coarse and 6 finishing cages, with 700 and 1400 mm diameter of working and supporting rolls respectively. The thickness of rolled strips is 1.5 to 10 mm, its width is 1000 to 2350 mm. The output velocity of the strip is 12 m/sec. The method of automatic control was developed at the Tsentral naya laboratoriya avtomatiki (TsLA) (Central Laboratory of Automation). The basic elements of the control system are the controllers of the roller gaps, placed

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